

## SEQUENCE LISTING

**10/594887**

<110> RenoMedix Inst. Inc.  
 <120> Agent for treating prion disease and production method thereof  
 <130> PCT2185RM  
 <150> JP2004-100649  
 <151> 2004-03-30  
 <160> 41  
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 gacaagaaag ttgagcccaa atcttgtgac agaactcaca catgccacc gtgccagca 780  
 cctgaactcc tggggggacc gtacgtcttc ctcttcccc caaaacccaa ggacaccctc 840  
 atgatctccc ggaccctga ggtcacatgc gtggtgggtg acgtgagcca cgaagaccct 900  
 gaggtaagt tcaactgta cgtggacggc gtggagggtg ataatgcaa gacaaagccg 960  
 cgggaggagc agtacaacag cacgtaccgg gtggtcagcg tctcaccgt cctgcaccag 1020  
 gactggctga atggcaagga gtacaagtgc aaggtctcca acaaaagccct cccagcccc 1080  
 atcgagaaaa ccatctccaa agccaaaggg cagccccgag aaccacaggt gtacaccctg 1140

ccccatccc gggatgagct gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc 1200  
 ttctatoccc gcgacatcgc cgtggagtgg gagagcaatg ggcagccgga gaacaactac 1260  
 aagaccacgc ctcccgctgt ggaactccgac ggctccttct tctctacag caagctcacc 1320  
 gtggacaaga gcaggtggca gcaggggaac gtcttctcat gctccgtgat gcatgaggct 1380  
 ctgcacaacc actacacgca gaagagcctc tccctgtctc cgggtaaata a 1431

<210> 33  
 <211> 717  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Chimeric anti-PrP mAb L chain

<400> 33  
 atggagacag acacactcct gctatgggtg ctgctgctct gggttcagg ttccacaggt 60  
 gacattgtgc tgaccaatc tccagcttct ttgggtgtgt ctctagggca gagggccacc 120  
 atatcctgca gagccagtga aagtgttgat agttatggca atagttttat gcaactggtac 180  
 cagcagaaac caggacagcc acccaaagtc ctcatctatc gtgcatccaa togagaatct 240  
 gggatccctg ccaggttcag tggcagtggt tctaggacag acttcaccct caccattaat 300  
 cctgtggagg ctgatgatgt tgcaacctat tactgtcagc aaagtaatga ggatccgtat 360  
 acattcggag gggggaccaa gctggaaata aaacgtacgg tggctgcacc atctgtcttc 420  
 atcttccgc catctgatga gcagttgaaa tctggaactg cctctgttgt gtgcctgctg 480  
 aataacttct atccagaga ggccaaagta cagtgggaagg tggataacgc cctccaatcg 540  
 ggtaactccc aggagagtgt cacagagcag gacagcaagg acagcaccta cagcctcagc 600  
 agcaccctga cgtgagcaa agcagactac gagaacaca aagtctacgc ctgcgaagtc 660  
 acccatcagg gcctgagctc gcccgtcaca aagagcttca acaggggaga gtgttag 717

<210> 34  
 <211> 1395  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Chimeric anti-PrP mAb H chain

<400> 34  
 atggaatgga tctggtatct tctcttcac cgtgcaggaa ctgcaggtgt ccaatcccag 60  
 gttcagctgc tgcagtctgg agctgaactg gcgaggcctg gggcttcagt gaagctgtcc 120  
 tgcaagggtt ctggctacac cttcacaagc tatagtataa gttgggtgaa gcagagaact 180  
 ggacagggcc ttgagtggat tggagagatt tatcctagaa gtggtaatat ttactacaat 240  
 gagaagttca aggacaaggc cacactgact gcagacaaat cctccagcac agcgtacatg 300  
 gagctccgca gcctgacatc tgaggactct gcggtctatt tctgtgcaac ggattacctg 360  
 tttgcttact ggggccaagg gactctggtc actgtctctg cagcgtcgac caagggccca 420  
 tcggtcttcc cctggcacc ctctccaag agcacctctg ggggcacagc ggccctgggc 480  
 tgcttggtca aggactactt cccgaaccg gtgacgggtg cgtggaactc aggcgcctg 540  
 accagcggcg tgcacacctt cccggctgtc ctacagtcct caggactcta ctccctcagc 600  
 agcgtggtga ccgtgccctc cagcagcttg ggcacccaga cctacatctg caacgtgaat 660  
 cacaagccca gcaacaccaa ggtggacaag aaagttgagc ccaaatcttg tgacagaact 720  
 cacacatgcc caccgtgcc agcacctgaa ctctggggg gaccgtcagt ctctctcttc 780

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ccccaaaac ccaaggacac cctcatgac tcccggaccc ctgaggtcac atgcgtggtg 840
gtggacgtga gccacgaaga cctgaggtc aagttcaact ggtacgtgga cggcgtggag 900
gtgcataatg ccaagacaaa gccgcgggag gagcagtaca acagcacgta ccgggtggtc 960
agcgtcctca ccgtcctgca ccaggactgg ctgaatggca aggagtacaa gtgcaaggtc 1020
tccaacaaag ccctcccagc ccccatcgag aaaaccatct ccaaaagccaa agggcagccc 1080
cgagaaccac aggtgtacac cctgccccca tcccgggatg agctgaccaa gaaccaggtc 1140
agcctgacct gcctggtcaa aggttcttat ccagcgaca tcgccgtgga gtgggagagc 1200
aatgggcagc cggagaacaa ctacaagacc acgcctcccg tgctggactc cgacggctcc 1260
ttcttctct acagcaagct caccgtggac aagagcaggt ggcagcaggg gaacgtcttc 1320
tcatgctccg tgatgatga ggctctgcac aaccactaca cgagaagag cctctccctg 1380
tctccgggta aataa 1395

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<210> 35  
 <211> 711  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Chimeric anti-PrP mAb L chain

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<400> 35
atggacatga gggtcctgc acagattttt ggcttcttgt tgctcttgtt tccaggtacc 60
agatgtgaca tccagatgac ccagtctcca tctccttat ctgcctctct gggagaaaga 120
gtcagtctca cttgtcgggc aagtcaggac attggtagta gtttaaaactg gcttcaacag 180
gaaccagatg gaactattaa acgcctgac tacgccacat ccagtttaga ttctggtgtc 240
ccaaaagggt tcagtggcag taggtctggg tcagattatt ctctcaccat cagcagcctt 300
gagtctgaag atttttaga ctattactgt ctgcaatatg caaaatctcc gtacacgttc 360
ggagggggga ccaagctgga aataaaacgt acgggtggctg caccatctgt cttcatcttc 420
ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac 480
ttctatccca gagaggccaa agtacagtgg aaggtggata acgcctcca atcgggtaac 540
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc 600
ctgacgtgta gcaaagcaga ctacgagaaa cacaagctct acgcctgcga agtcacccat 660
cagggcctga gctcgccctg cacaagagc ttcaacaggg gagagtgtta g 711

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<210> 36  
 <211> 480  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Chimeric anti-PrP mAb H chain

<400> 36

Met Ser Ser Pro Gln Ala Leu Asn Thr Leu Thr Leu Thr Met Gly Trp  
1 5 10 15

Ser Trp Ile Phe Leu Leu Phe Leu Ser Gly Thr Ala Gly Val Leu Ser  
20 25 30

Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Val Val Lys Pro Gly Ala  
35 40 45

Ser Leu Lys Ile Pro Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr  
50 55 60

Asn Met Asp Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile  
65 70 75 80

Gly Asp Ile Asn Pro Asn Asn Gly Gly Thr Ile Tyr Asn His Asn Phe  
85 90 95

Thr Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr  
100 105 110

Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
115 120 125

Ala Arg Ala Thr Ser Leu Val Asp Phe Asp Tyr Trp Gly Gln Gly Thr  
130 135 140

Thr Leu Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
145 150 155 160

Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly  
165 170 175

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn  
180 185 190

Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln  
195 200 205

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser  
210 215 220

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser  
225 230 235 240

Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Arg Thr  
245 250 255

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser  
260 265 270

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg  
275 280 285

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro  
290 295 300

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala  
305 310 315 320

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val  
325 330 335

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr  
340 345 350

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr  
355 360 365

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu  
370 375 380

Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys  
385 390 395 400

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser  
405 410 415

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp  
420 425 430

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser  
435 440 445

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala  
450 455 460

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
465 470 475 480

<210> 37

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> Chimeric anti-PrP mAb L chain

<400> 37

Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala  
1 5 10 15

Ser Ser Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val  
20 25 30

Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile  
35 40 45

Val His Thr Asn Gly Asn Thr Tyr Leu Glu Trp Phe Leu Gln Lys Pro  
50 55 60

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser  
65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr  
85 90 95

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys  
100 105 110

Phe Gln Gly Ser Leu Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu  
115 120 125

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro  
130 135 140

Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu  
145 150 155 160

Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn  
165 170 175

Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser  
180 185 190

Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala  
195 200 205

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly  
210 215 220

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
225 230 235

<210> 38  
<211> 476  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chimeric anti-PrP mAb H chain

<400> 38

Met Ser Ile Asp His Arg Pro Leu Thr Met Asn Phe Gly Leu Arg Leu  
1 5 10 15

Ile Phe Leu Val Leu Thr Leu Lys Gly Val Gln Cys Asp Val Lys Leu  
20 25 30

Val Glu Ser Gly Glu Gly Leu Val Lys Pro Gly Gly Ser Leu Lys Leu  
35 40 45

Ser Cys Ala Ala Ser Gly Ile Thr Phe Ser Arg Tyr Ala Met Ser Trp  
50 55 60

Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala Tyr Ile Ser  
65 70 75 80

Ser Gly Gly Asp Tyr Ile Asn Tyr Ala Asp Thr Val Lys Gly Arg Phe  
85 90 95

Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Leu Tyr Leu Gln Met Ser  
100 105 110

Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys Thr Arg Val Thr  
115 120 125

Pro Tyr Trp Tyr Phe Asp Val Trp Gly Thr Gly Thr Thr Val Thr Val  
130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser  
145 150 155 160

Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys  
165 170 175

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu  
180 185 190

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu  
195 200 205

Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr  
210 215 220

Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val

225	230	235	240
Asp Lys Lys Val	Glu Pro Lys Ser Cys Asp Arg Thr His Thr Cys Pro		
	245	250	255
Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe			
	260	265	270
Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val			
	275	280	285
Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe			
	290	295	300
Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro			
	305	310	315
Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr			
	325	330	335
Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val			
	340	345	350
Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala			
	355	360	365
Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg			
	370	375	380
Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly			
	385	390	395
Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro			
	405	410	415
Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser			
	420	425	430
Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln			
	435	440	445
Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His			
	450	455	460
Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys			
	465	470	475

<210> 39  
 <211> 238  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Chimeric anti-PrP mAb L chain

<400> 39

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1                      5                      10                      15

Gly Ser Thr Gly Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Gly
20                      25                      30

Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Glu Ser  
35 40 45

Val Asp Ser Tyr Gly Asn Ser Phe Met His Trp Tyr Gln Gln Lys Pro  
50 55 60

Gly Gln Pro Pro Lys Val Leu Ile Tyr Arg Ala Ser Asn Arg Glu Ser  
65 70 75 80

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Arg Thr Asp Phe Thr  
85 90 95

Leu Thr Ile Asn Pro Val Glu Ala Asp Asp Val Ala Thr Tyr Tyr Cys  
100 105 110

Gln Gln Ser Asn Glu Asp Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu  
115 120 125

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro  
130 135 140

Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu  
145 150 155 160

Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn  
165 170 175

Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser  
180 185 190

Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala  
195 200 205

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly  
210 215 220

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
225 230 235

<210> 40

<211> 464

<212> PRT

<213> Artificial Sequence

<220>

<223> Chimeric anti-PrP mAb H chain

<400> 40

Met Glu Trp Ile Trp Ile Phe Leu Phe Ile Leu Ser Gly Thr Ala Gly  
1 5 10 15

Val Gln Ser Gln Val Gln Leu Leu Gln Ser Gly Ala Glu Leu Ala Arg  
20 25 30

Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Gly Ser Gly Tyr Thr Phe  
35 40 45

Thr Ser Tyr Ser Ile Ser Trp Val Lys Gln Arg Thr Gly Gln Gly Leu  
50 55 60

Glu Trp Ile Gly Glu Ile Tyr Pro Arg Ser Gly Asn Thr Tyr Tyr Asn  
65 70 75 80



Glu Lys Phe Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser  
85 90 95

Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val  
100 105 110

Tyr Phe Cys Ala Thr Asp Tyr Leu Phe Ala Tyr Trp Gly Gln Gly Thr  
115 120 125

Leu Val Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
130 135 140

Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly  
145 150 155 160

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn  
165 170 175

Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln  
180 185 190

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser  
195 200 205

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser  
210 215 220

Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Arg Thr  
225 230 235 240

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser  
245 250 255

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg  
260 265 270

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro  
275 280 285

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala  
290 295 300

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val  
305 310 315 320

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr  
325 330 335

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr  
340 345 350

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu  
355 360 365

Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys  
370 375 380

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser  
385 390 395 400

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp  
405 410 415

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser  
420 425 430

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala  
435 440 445

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
450 455 460

<210> 41  
<211> 236  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chimeric anti-PrP mAb L chain

<400> 41

Met Asp Met Arg Ala Pro Ala Gln Ile Phe Gly Phe Leu Leu Leu Leu  
1 5 10 15

Phe Pro Gly Thr Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser  
20 25 30

Leu Ser Ala Ser Leu Gly Glu Arg Val Ser Leu Thr Cys Arg Ala Ser  
35 40 45

Gln Asp Ile Gly Ser Ser Leu Asn Trp Leu Gln Gln Glu Pro Asp Gly  
50 55 60

Thr Ile Lys Arg Leu Ile Tyr Ala Thr Ser Ser Leu Asp Ser Gly Val  
65 70 75 80

Pro Lys Arg Phe Ser Gly Ser Arg Ser Gly Ser Asp Tyr Ser Leu Thr  
85 90 95

Ile Ser Ser Leu Glu Ser Glu Asp Phe Val Asp Tyr Tyr Cys Leu Gln  
100 105 110

Tyr Ala Lys Ser Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile  
115 120 125

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp  
130 135 140

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn  
145 150 155 160

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu  
165 170 175

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp  
180 185 190

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr  
195 200 205

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser  
210 215 220

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
225 230 235